



# **STIC Search Report**

## **EIC 2100**

**STIC Database Tracking Number: 162192**

**TO: Backhean Tiv**  
**Location: RND 4B49**  
**Art Unit: 2151**  
**Wednesday, August 17, 2005**

**Case Serial Number: 10/007464**

**From: Ruth E. Spink**  
**Location: EIC 2100**  
**RND-4B31**  
**Phone: 23524**

**Ruth.spink@uspto.gov**

### **Search Notes**

Backhean – Attached is the inventor, foreign patent and NPL search for the above referenced case. I will send you links to the websites that I included via email. Be sure to let me know if you would like for me to refocus the search.

Ruth

# SEARCH REQUEST FORM

Scientific and Technical Information Center

(64)

Requester's Full Name: Backhean T.V Examiner #: 80175 Date: 8/10/05  
Art Unit: 2151 Phone Number 30 3941 Serial Number: 10/027,464  
Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER (DISK) E-MAIL

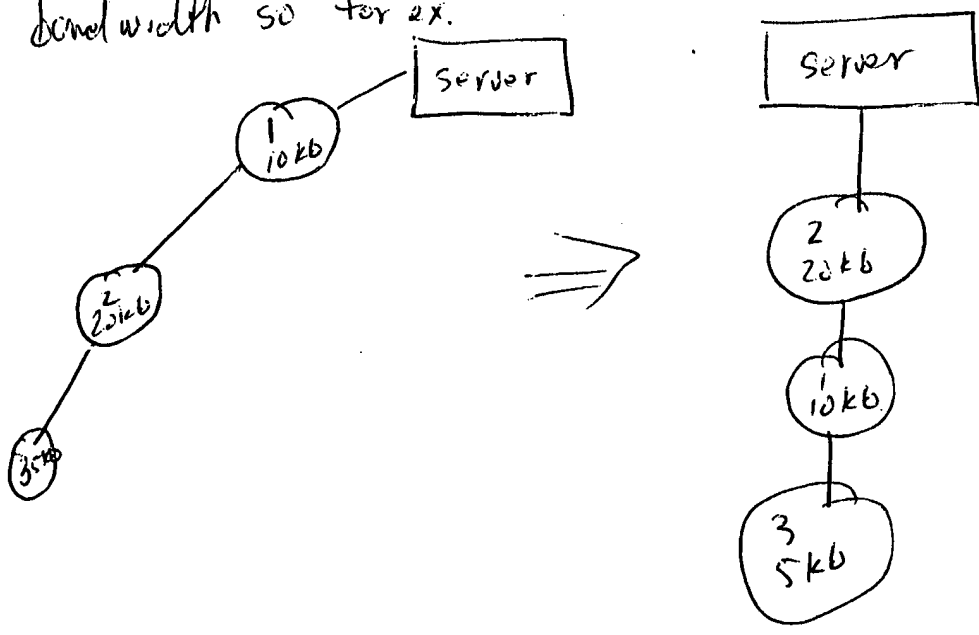
**If more than one search is submitted, please prioritize searches in order of need.**  
\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Streaming of Data  
Inventors (please provide full names): Scott Harlop  
Douglas S. Foote  
Earliest Priority Filing Date: 12/20/80

*\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Multiple clients downloading/streaming data from a server.  
Each client monitors its own bandwidth and compares with the client above or below. Change position for downloading based on bandwidth so for ex.



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BY: \_\_\_\_\_

Set	Items	Description
S1	2	AU=(HARTOP, S? OR HARTOP S?)
S2	88	AU=(FOOTE, D? OR FOOTE D?)
S3	1	AU='HARTOP'
S4	89	S1 OR S2 OR S3
S5	6	S4 AND IC=G06F
S6	6	IDPAT (sorted in duplicate/non-duplicate order)
S7	5	IDPAT (primary/non-duplicate records only)
S8	2	S4 AND (STREAMING OR BANDWIDTH)
S9	1	S8 NOT S7

File 347:JAPIO Nov 1976-2005/Apr(Updated 050801)

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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200551

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File 349:PCT FULLTEXT 1979-2005/UB=20050811,UT=20050804

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File 348:EUROPEAN PATENTS 1978-2005/Aug W01

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7/5/1 (Item 1 from file: 350)  
DIALOG(R) File 350: Derwent WPIX  
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014701184 \*\*Image available\*\*  
WPI Acc No: 2002-521888/200256  
XRPX Acc No: N02-413014

**Streaming of data e.g. for peer to peer architecture, involves each client monitoring its own bandwidth, informing succeeding client in chain of that bandwidth**

Patent Assignee: NCR INT INC (NATC ); FOOTE D S (FOOT-I); HARTOP S (HART-I)

Inventor: **HARTOP S ; FOOTE D S**

Number of Countries: 027 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1217803	A1	20020626	EP 2001309084	A	20011025	200256 B
US 20020161898	A1	20021031	US 20017464	A	20011205	200274
EP 1217803	B1	20040428	EP 2001309084	A	20011025	200429
DE 6020103005	E	20040603	DE 2001603005	A	20011025	200436
			EP 2001309084	A	20011025	

Priority Applications (No Type Date): GB 200031157 A 20001220

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 1217803	A1	E 9	H04L-029/06	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR				
US 20020161898	A1		G06F-015/16	
EP 1217803	B1	E	H04L-029/06	
Designated States (Regional): DE FR GB				
DE 6020103005	E		H04L-029/06	Based on patent EP 1217803

Abstract (Basic): EP 1217803 A1

**NOVELTY** - The method involves each client monitoring its own bandwidth, informing a succeeding client in the chain of that bandwidth, comparing its own bandwidth with the bandwidth of a preceding client in the chain and, in response to a difference between the compared bandwidths, reordering its position among the clients in the chain.

**DETAILED DESCRIPTION** - An **INDEPENDENT CLAIM** is included for a peer to peer data streaming system, and a client terminal

**USE** - For distribution of rich media and data on-line and over any network, notably Internet

**ADVANTAGE** - Enables and provides a streaming architecture which uses a piece of software to link any networked computing device in a continuous, dynamically self-organizing peer-to-peer chain for the purpose of streaming any kind of data more efficiently and with higher, more reliable throughput

**DESCRIPTION OF DRAWING(S)** - The figure shows a diagram of a second step in the process of the invention, in which communication is established between the new client and another client from which the new client receives streamed data and forwards that data to other clients along a peer-to-peer chain.

pp; 9 DwgNo 2/4

Title Terms: STREAM; DATA; PEER; PEER; ARCHITECTURE; CLIENT; MONITOR; BANDWIDTH; INFORMATION; SUCCEEDING; CLIENT; CHAIN; BANDWIDTH

Derwent Class: T01; W01

International Patent Class (Main): **G06F-015/16** ; H04L-029/06

International Patent Class (Additional): H04L-012/18; H04L-012/56

File Segment: EPI

Set	Items	Description
S1	0	AU=(HARTOP, S? OR HARTOP S?)
S2	120	AU=(FOOTE, D? OR FOOTE D?)
S3	0	S2 AND (STREAMING OR PEER()TO()PEER OR BANDWIDTH)
S4	0	S2 AND P2P
File	2:INSPEC 1969-2005/Aug W1	(c) 2005 Institution of Electrical Engineers
File	6:NTIS 1964-2005/Aug W1	(c) 2005 NTIS, Intl Cpyrght All Rights Res
File	8:Ei Compendex(R) 1970-2005/Jul W5	(c) 2005 Elsevier Eng. Info. Inc.
File	34:SciSearch(R) Cited Ref Sci 1990-2005/Aug W1	(c) 2005 Inst for Sci Info
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	(c) 1998 Inst for Sci Info
File	35:Dissertation Abs Online 1861-2005/Jul	(c) 2005 ProQuest Info&Learning
File	65:Inside Conferences 1993-2005/Aug W2	(c) 2005 BLDSC all rts. reserv.
File	94:JICST-EPlus 1985-2005/Jun W4	(c)2005 Japan Science and Tech Corp(JST)
File	99:Wilson Appl. Sci & Tech Abs 1983-2005/Jul	(c) 2005 The HW Wilson Co.
File	144:Pascal 1973-2005/Aug W1	(c) 2005 INIST/CNRS
File	636:Gale Group Newsletter DB(TM) 1987-2005/Aug 12	(c) 2005 The Gale Group

*Non-Patent L.F.  
Search*

Set	Items	Description
S1	1922158	CLIENT? ? OR NODE? ? OR COMPUTER? ? OR PC? ? OR (CELL OR M-OBILE)()PHONE? ? OR PERSON()DIGITAL()ASSISTANT? ? OR PDA? ? OR LAPTOP? ? OR NOTEBOOK? ? OR TERMINAL? ? OR MP3()PLAYER? ?
S2	38845	PEER(N)PEER OR P2P OR S1(N) (BASED OR SIDE) OR KAZAA OR EMU-LE OR NAPSTER OR SKYPE OR BITTORRENT OR WINMX OR MORPHEUS OR -GROKSTER OR EDONKEY OR GNUTELLA OR FILE() (SHARING OR SWAPPING) OR FILESHARING
S3	2552380	STREAM?? OR STREAMING OR CONTINUOUS()DOWNLOAD? OR AUDIO OR VIDEO OR MULTI()MEDIA OR MULTIMEDIA OR MP3? ? OR MOVIE? ? OR -SOUND? ? OR MUSIC OR GAME? ? OR FILM? ? OR (MOVING OR MOTION)-()PICTURE? ? OR MPEG? ? OR MPG? ? OR MULTICASTING OR WEBCASTI-NG
S4	1438961	BANDWIDTH OR BAND()WIDTH OR CAPACIT? OR LOAD OR (DATA OR C-ONNECT?) (N) (SPEED OR RATE)
S5	5206526	MONITOR? OR MANAG? OR CONTROL? OR ADMINISTRAT? OR CONFIGUR? OR BALANC?
S6	9337066	ORGANI? OR ORDER? OR REORDER? OR POSITION? OR REPOSITION? -OR ARRANG? OR REARRANG? OR SORT? OR SUCCEED? OR PRECED? OR BE-FORE OR AFTER OR FLRST OR LAST OR ASCENDING OR DESCENDING
S7	350412	QUEUE? ? OR QUEUING OR CHAIN OR PRIORITY OR PRIORITI?ING
S8	1098913	COMPARE? ? OR COMPARING OR EVALUAT? OR ANALY?
S9	6653	S1 (5N) ((S5 OR S8 OR S6) (3N) S4)
S10	220	S9 AND S2
S11	87	S10 AND IC=G06F
S12	15	S10 AND S3
S13	15	IDPAT (sorted in duplicate/non-duplicate order)
S14	15	IDPAT (primary/non-duplicate records only)
S15	46	S10 AND IC=G06F-015
S16	42	S15 NOT S14
S17	42	IDPAT (sorted in duplicate/non-duplicate order)
S18	40	IDPAT (primary/non-duplicate records only)
S19	2957	S1 (5N) (S5 AND (S8 OR S6) (3N) S4)
S20	62	S19 AND S2
S21	53	S20 NOT (S14 OR S18)
S22	11	S21 AND IC=G06F
S23	11	IDPAT (sorted in duplicate/non-duplicate order)
S24	11	IDPAT (primary/non-duplicate records only)
S25	2	S21 AND S3
S26	1479	(S6 (3N) S1) AND S4 AND S3
S27	226	(S6 (3N) S1) (5N) S4 AND S3
S28	12	S27 AND IC=G06F
S29	12	IDPAT (sorted in duplicate/non-duplicate order)
S30	12	IDPAT (primary/non-duplicate records only)
S31	12	S30 NOT (S14 OR S18 OR S25)
S32	2023	S6 (3N) S7 (5N) S1
S33	77	S32 AND S2
S34	77	S33 NOT (S14 OR S18 OR S25 OR S31)
S35	34	S34 AND IC=G06F
S36	34	IDPAT (sorted in duplicate/non-duplicate order)
S37	33	IDPAT (primary/non-duplicate records only)
S38	237	S1 (5N) S7 (5N) S4
S39	36	S38 AND (S2 OR S3)
S40	34	S39 NOT (S14 OR S18 OR S25 OR S31 OR S37)
S41	34	IDPAT (sorted in duplicate/non-duplicate order)
S42	33	IDPAT (primary/non-duplicate records only)
S43	64	(S7 (3N) S1) AND S4 AND S3
S44	15	S43 AND IC=G06F
S45	11	S44 NOT (S14 OR S18 OR S25 OR S31 OR S37 OR S42)
S46	11	IDPAT (sorted in duplicate/non-duplicate order)
S47	11	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2005/Apr(Updated 050801)

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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200552

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Set	Items	Description
S1	1683166	CLIENT? ? OR NODE? ? OR COMPUTER? ? OR PC? ? OR (CELL OR M-OBILE)()PHONE? ? OR PERSON()DIGITAL()ASSISTANT? ? OR PDA? ? OR LAPTOP? ? OR NOTEBOOK? ? OR TERMINAL? ? OR MP3()PLAYER? ?
S2	42162	PEER(N)PEER OR P2P OR S1(N)(BASED OR SIDE) OR KAZAA OR EMU-LE OR NAPSTER OR SKYPE OR BITTORRENT OR WINMX OR MORPHEUS OR -GROKSTER OR EDONKEY OR GNUTELLA OR FILE() (SHARING OR SWAPPING) OR FILESHARING
S3	696926	STREAM?? OR STREAMING OR CONTINUOUS()DOWNLOAD? OR AUDIO OR VIDEO OR MULTI()MEDIA OR MULTIMEDIA OR MP3? ? OR MOVIE? ? OR -SOUND? ? OR MUSIC OR GAME? ? OR FILM? ? OR (MOVING OR MOTION)-()PICTURE? ? OR MPEG? ? OR MPG? ? OR MULTICASTING OR WEBCASTI-NG
S4	528863	BANDWIDTH OR BAND()WIDTH OR CAPACITY OR CAPACITIES OR LOAD OR (DATA OR CONNECT?? OR CONNECTING OR CONNECTION? ?) (N) (SPEED OR RATE)
S5	1434665	MONITOR?? OR MONITORING OR MANAGE? ? OR MANAGING OR MANAGE-MENT OR CONTROL? ? OR CONTROLLED OR CONTROLLING OR ADMINISTRA-TE? ? OR ADMIN OR ADMINISTRATING OR ADMINISTRATION OR CONFIGU-RE? ? OR CONFIGURING OR CONFIGURATION OR BALANCE? ? OR BALANC-ING
S6	158157	(ORGANI?E? ? OR ORGANI?ING OR ORGANI?ATION OR ORDER?? OR O-RDERING OR REORDER?? OR REORDERING OR POSITION?? OR POSITIONI-NG OR REPOSITION?? OR REPOSITIONING OR ARRANGE? ? OR ARRANGING OR ARRANGMENT? ? OR REARRANGE?? OR REARRANGING OR REARRANGME-NT? ? OR SORT
S7	56252	(ORGANI?E? ? OR ORGANI?ING OR ORGANI?ATION OR ORDER?? OR O-RDERING OR REORDER?? OR REORDERING OR POSITION?? OR POSITIONI-NG OR REPOSITION?? OR REPOSITIONING OR ARRANGE? ? OR ARRANGING OR ARRANGMENT? ? OR REARRANGE?? OR REARRANGING OR REARRANGME-NT? ? OR SORT
S8	610653	QUEUE? ? OR QUEUING OR CHAIN OR PRIORITY OR PRIORITI?ING
S9	900299	COMPARE? ? OR COMPARING OR EVALUATE? ? OR EVALUATING OR EV-ALUATION OR ANALY?E? ? OR ANALY?ING OR ANALYSIS
S10	4	(S7 OR (S5 OR S8 OR S9) (3N) S4) (10N) S2
S11	7	(S7 OR (S5 OR S8 OR S9) (5N) S4) (10N) S2
S12	7	IDPAT (sorted in duplicate/non-duplicate order)
S13	7	IDPAT (primary/non-duplicate records only)
S14	4181	(S6 OR (S5 OR S8 OR S9) (5N) S1) (5N) S4 (10N) S2
S15	1917	S14 (S) S3
S16	27	((S6 OR (S5 OR S8 OR S9) (5N) S1) (5N) S4) (10N) S2
S17	27	IDPAT (sorted in duplicate/non-duplicate order)
S18	27	IDPAT (primary/non-duplicate records only)
S19	618	S15 AND IC=G06F
S20	105	S15 AND IC=G06F-015
S21	50	((ORGANI?E? ? OR ORGANI?ING OR ORGANI?ATION OR ORDER?? OR -ORDERING OR REORDER?? OR REORDERING OR POSITION?? OR POSITION-ING OR REPOSITION?? OR REPOSITIONING OR ARRANGE? ? OR ARRANGI-NG OR ARRANGMENT? ? OR REARRANGE?? OR REARRANGING OR REARRANG-MENT? ? OR SOR
S22	14	S21 AND IC=G06F
S23	14	IDPAT (sorted in duplicate/non-duplicate order).
S24	13	IDPAT (primary/non-duplicate records only)
S25	13	S24 NOT (S18 OR S13)
S26	35	((ORGANI?E? ? OR ORGANI?ING OR ORGANI?ATION OR ORDER?? OR -ORDERING OR REORDER?? OR REORDERING OR POSITION?? OR POSITION-ING OR REPOSITION?? OR REPOSITIONING OR ARRANGE? ? OR ARRANGI-NG OR ARRANGMENT? ? OR REARRANGE?? OR REARRANGING OR REARRANG-MENT? ? OR SOR
S27	29	S26 NOT S25
S28	2	S27 AND IC=G06F

? show files

File 348:EUROPEAN PATENTS 1978-2005/Aug W01

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Set	Items	Description
S1	25780	CLIENT? ? OR NODE? ? OR COMPUTER? ? OR PC? ? OR (CELL OR M-OBILE) () PHONE? ? OR PERSON() DIGITAL() ASSISTANT? ? OR PDA? ? OR LAPTOP? ? OR NOTEBOOK? ? OR TERMINAL? ? OR MP3() PLAYER? ?
S2	913	PEER(N) PEER OR P2P OR CLIENT(N) (BASED OR SIDE) OR KAZAA OR EMULE OR NAPSTER OR SKYPE OR BITTORRENT OR WINMX OR MORPHEUS - OR GROKSTER OR EDONKEY OR GNUTELLA OR FILE() (SHARING OR SWAPPING) OR FILESHARING
S3	9431	STREAM?? OR STREAMING OR CONTINUOUS() DOWNLOAD? OR AUDIO OR VIDEO OR MULTI() MEDIA OR MULTIMEDIA OR MP3? ? OR MOVIE? ? OR - SOUND? ? OR MUSIC OR GAME? ? OR FILM? ? OR (MOVING OR MOTION) - () PICTURE? ? OR MPEG? ? OR MPG? ? OR MULTICASTING OR WEBCASTING
S4	3901	BANDWIDTH OR BAND() WIDTH OR CAPACIT? OR LOAD OR (DATA OR CONNECT?) (N) (SPEED OR RATE)
S5	38120	MONITOR? OR MANAG? OR CONTROL? OR ADMINISTRAT? OR CONFIGUR? OR BALANC?
S6	23882	ORGANI? OR ORDER? OR REORDER? OR POSITION? OR REPOSITION? - OR ARRANG? OR REARRANG? OR SORT? OR SUCCEED? OR PRECED? OR BEFORE OR AFTER OR FIRST OR LAST OR ASCENDING OR DESCENDING
S7	2939	QUEUE? ? OR QUEUING OR CHAIN OR PRIORITY OR PRIORITI?ING
S8	15241	COMPARE? ? OR COMPARING OR EVALUAT? OR ANALY?
S9	1400	(S5 OR S6 OR S7 OR S8) (5N) S4
S10	666	S9 AND (S1 OR S2)
S11	157	((S5 (3N) S4) AND (S6 OR S7) (3N) S4) OR S8 (3N) S4)
S12	57	S11 AND (S1 OR S2)
S13	40	RD (unique items)
S14	2	((S6 OR S7) (3N) S1) (5N) S4
S15	3	((S6 OR S7) (3N) S1) (10N) S2
S16	4	(S6 (3N) S7) (5N) (S1 OR S2)
S17	41	(S6 (3N) S7) AND (S1 OR S2)
S18	41	S17 NOT (S13 OR S14 OR S15)
S19	34	RD (unique items)
S20	0	WINMX

File 256: TecInfoSource 82-2005/Jul  
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